

AMENDMENTS TO THE CLAIMS

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double brackets indicating deletions.

Listing of the Claims

1. (CURRENTLY AMENDED) A method for providing Brassica varieties with elevated levels of anticarcinogenic glucosinolates, comprising:

- a) providing a cultivated Brassica oleracea plant with elevated levels of anticarcinogenic glucosinolates in the edible parts of the Brassica oleracea plant; and
- b) crossing the Brassica oleracea plant provided under a) for breeding of the Brassica varieties with elevated levels of anticarcinogenic glucosinolates,

wherein the cultivated Brassica oleracea plant is sprouting broccoli (Brassica oleracea convar. botrytis var. asparagoides) variety Bordeaux or savoy cabbage (Brassica oleracea convar. capitata var. sabauda) variety Wirosa,

wherein, in the cultivated Brassica oleracea plant, the anticarcinogenic glucosinolates include at least glucoiberin (3-methylsulphinylpropyl glucosinolate (3MSPG)) and glucoraphanin (4-methylsulphinylbutyl glucosinolate (4MSBG)), and

wherein, in the cultivated Brassica oleracea plant, the concentration of 3MSPG per 100 gram of fresh weight of the edible part is greater than 280 micromol and the concentration of 4MSBG per 100 gram of fresh weight of the edible part is greater than 120 micromol.

2. (CANCELLED)

3. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein the concentration of 3MSPG per 100 gram of fresh weight of the edible part is greater than 390 micromol.

4. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein the concentration of 3MSPG per 100 gram of fresh weight of the edible part is greater than 790 micromol.

5. (CANCELLED)

6. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein the concentration of 4MSBG per 100 gram of fresh weight of the edible part is greater than 140 micromol.

7. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein the cultivated Brassica oleracea plant is the sprouting broccoli (Brassica oleracea convar. botrytis var. asparagoides).

8. (PREVIOUSLY PRESENTED) The method according to claim 7, wherein the sprouting broccoli (Brassica oleracea convar. botrytis var. asparagoides) variety is Bordeaux.

9. (PREVIOUSLY PRESENTED) The method according to claim 1, wherein the cultivated Brassica oleracea plant is the Savoy cabbage (Brassica oleracea convar. capitata var. sabauda).

10. (ORIGINAL) The method according to claim 9, wherein the Savoy cabbage (Brassica oleracea convar. capitata var. sabauda) variety is Wirosa.

11.-12. (CANCELLED)

13. (CURRENTLY AMENDED) The method according to claim 1, wherein the plant belonging to the Brassica varieties is selected from the group consisting of ~~cauliflower or romanesco (Brassica oleracea convar. botrytis var. botrytis); broccoli (Brassica oleracea convar. botrytis var. cymosa); sprouting broccoli sprout (Brassica oleracea convar. botrytis var. asparagoides) of variety Bordeaux; Brussels sprouts (Brassica oleracea convar. oleracea var. gemmifera); white cabbage or oxheart cabbage (Brassica oleracea convar. capitata var. alba); red cabbage (Brassica oleracea convar. capitata var. rubra); and Savoy cabbage (Brassica oleracea convar. capitata var. sabauda) of variety Wirosa.; kohlrabi (Brassica oleracea convar. acephala var. gongyloides); kale (Brassica oleracea convar. acephala var. sabellica); and Portuguese cabbage (Brassica oleracea var. trachuda syn. costata).~~

14. (WITHDRAWN- PREVIOUSLY PRESENTED) A plant belonging to the Brassica varieties obtainable by the method of claim 1.

15. (WITHDRAWN- PREVIOUSLY PRESENTED) Seeds of a plant belonging to the Brassica varieties obtainable by the method of claim 1.

16. (WITHDRAWN- PREVIOUSLY PRESENTED) Parts of a plant belonging to the Brassica varieties obtainable the method of claim 1.

17. (WITHDRAWN) The use of the plant according to claim 14 for the preparation of a food product and/or pharmaceutical composition for prophylaxis and/or treatment of cancer.

18. (WITHDRAWN) The use of the seeds according to claim 15 for the preparation of a food product and/or pharmaceutical composition for prophylaxis and/or treatment of cancer.

19. (WITHDRAWN) The use of the parts of a plant according to claim 16 for the preparation of a food product and/or pharmaceutical composition for prophylaxis and/or treatment of cancer.

20. (CANCELLED)

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END OF CLAIM LISTING

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